**An Essay Critique.**

The error in the generated essay is discussed in subsequent subtopics.

**Wrong information.**

“Lipids are another class of biological macromolecules that contain carbon as a fundamental  
component.”

This is the wrong information. The writer interpreted lipids as having long fatty acid chains and that lipids are also found in living organisms; hence, lipids are biological macromolecules. However, a lipid is not a macromolecule because it is one molecule and not monomers that are covalently linked (Brooker *et al*., 2022).

**Insertion of missing citations.**

A yellow text on a white background

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Here, the correct information is without an in-text citation to explain the source of the information.

Correct: The writer has also omitted that nucleic acid is responsible for gene expression (Reece *et al*., 2011). They comprise the monomer nucleotide, with two types of nucleotides. The deoxyribonucleic acid, DNA, ribonucleic acid, and RNA (Brooker *et al*., 2022).

This is crucial information that helps capture the biological function of nucleic acid.

**Citation errors.**

“(Baynes and Dominiczak, 2009)”

This citation appears in the body of the text but does not have a complete reference.

The figure was not referenced.

A diagram of a molecule

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A diagram of a chemical structure

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Wikipedia is not a credible source for referencing in academic work. It does not have a named author, and it is open to correction by members of the public (Harvard University, 2023). Also, this figure was mislabelled when it should have been “Figure 2”.

**Correction of Referencing**

Table 1. Correction to wrong reference.

|  |  |
| --- | --- |
| Wrong referencing | Correct referencing |
| Brooker, Widmaier, Graham, Stiling. 2014. 3rd edition. Biology McGraw-Hill, Boston | Brooker, R., Widmaier, E., Graham, L. and Stiling, P. (2022). *Biology*. Boston: McGraw-Hill. |
| National Center for Biotechnology Information 2023 Structure of Alanine. PubChem Compound Summary for CID 5950, Alanine.  <https://pubchem.ncbi.nlm.nih.gov/compound/Alanine>. Accessed Sept. 7, 2023. | National Center for Biotechnology Information (2022) *Structure of Alanine*. Available at: https://pubchem.ncbi.nlm.nih.gov/compound/Alanine (Accessed: 18 September 2023). |

The reference was not given in the Cite-Them-Rite Harvard format. The corrected reference highlights what was miswritten.

**Poor presentation.**

The essay was presented with the relevant subtopics for discussing carbon. However, the essay was presented poorly because of language errors. Some of the language errors are highlighted below:

Table 2. Correction to language error.

|  |  |
| --- | --- |
| Language error | Correction |
| Spelling: “covalent” | Covalent |
| Punctuation: “In summary carbon is a crucial in biological macromolecules”. | In summary, carbon is crucial in biological macromolecules. |
| Grammar: “Proteins are vital for a plethora of biological functions.” | Proteins are essential for many biological functions. |
| Capitalisation error “…macromolecules. macromolecules…” | macromolecules. Macromolecules |

The essay also uses personal words such as “we” and “let’s”. Scientific writing should be impersonal, passive and clear (Anglia Ruskin University, 2023).

**References**

Anglia Ruskin University (2023).  *ARU Essay writing - style and clarity*. [online] sts.anglia.ac.uk. Available at: <https://canvas.anglia.ac.uk/courses/34658/pages/week-2-scientific-writing-and-introduction-to-the-cpd-module> (Accessed 6 Oct. 2023).

Brooker, R., Widmaier, E., Graham, L. and Stiling, P. (2022). *ISE EBook Online Access for Biology*. New York: McGraw-Hill US Higher Ed ISE.

Harvard University (2023). *What’s Wrong with Wikipedia?* [online] Harvard.edu. Available at: https://usingsources.fas.harvard.edu/what%E2%80%99s-wrong-wikipedia (Accessed 12 Oct. 2023).

Reece, J.B., Urry, L.A., Cain, M.L., Wasserman, S.A., Minorsky, P.V. and Jackson, R.B. (2011). *Campbell biology global edition*. Boston Pearson.